# RASPBERRY PI UTILIZING A RASPBERRY PI TO DRIVE A XMAS LIGHT WINDOW DISPLAY

## MY TEST BOARD



### TEST BOARD IS DESIGNED TO USE WIRINGPI V2 SOFTWARE

← Welcome

PiGlow added to the devLib →

### WiringPi v2 (point 03) is released!

Posted on May 13, 2013 by Gordon

After some months of testing and time away due to family issues, a short holiday and whatnot, *wiringPi* v2 has been pushed to the GIT repository and is now released!

Changes: 100's. There is now a completely re-written internal structure that allows for analogRead() and analogWrite() functions (hardware permitting – e.g. on the Gertboard and other A/D converters). There is a mechanism for adding new GPIO hardware – e.g. MCP23x17 (both I2C & SPI variants) and much more!

As usual, feedback is welcome – my plan is to run a forum here shortly, but for now I'll allow comments on this post, or drop me email.

HTTP://WIRINGPI.COM/

### TEST BOARD UTILIZES SAINSMART RELAY & LCD BOARDS



Click to open expanded view

### SainSmart 8-Channel Relay Module

by SainSmart

★★★★ ▼ 85 customer reviews

| 14 answered questions

List Price: \$18.10

Price: \$13.18 & FREE Shipping on orders over \$35.

Details

You Save: \$4.92 (27%)

In Stock

Ships from and sold by Amazon.com. Gift-wrap available.

Want it tomorrow, April 5? Order within 5 hrs 19 mins and choose One-Day Shipping at checkout. Details

- 5V 8-Channel Relay interface board, and each one needs 15-20mA Driver Current
- Equipped with high-current relay, AC250V 10A; DC30V 11A
- Standard interface that can be controlled directly by microcontroller (Arduino , 8051, AVR, PIC, DSP, ARM, ARM, MSP432, TTL logic)
- Indication LED's for Relay output status



Click to open expanded view

# SainSmart LCD Module For Arduino 20 X 4, PCB Board, White On Blue

by SainSmart

★★★☆☆ ▼ 173 customer reviews 11 answered questions

List Price: \$30.59

Price: \$14.14 & FREE Shipping on orders over \$35.

Details

You Save: \$16.45 (54%)

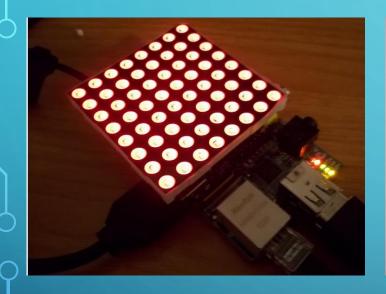
In Stock.

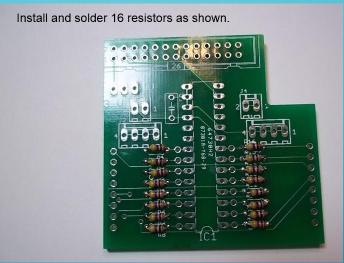
Ships from and sold by Amazon.com. Gift-wrap available.

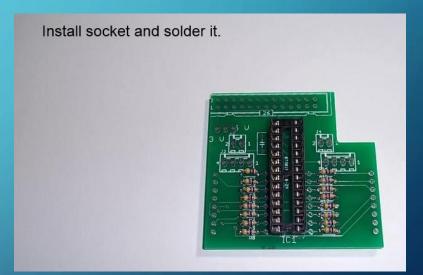
Want it tomorrow, April 5? Order within 5 hrs 15 mins and choose One-Day Shipping at checkout. Details

- LCD module based on the popular HD44780 controller
- Works great with Arduino and other micro-controllers
- · Tutorial/instructions can be found on manufacturer website.
- 4 rows, 20 characters

### PI MATRIX BOARD



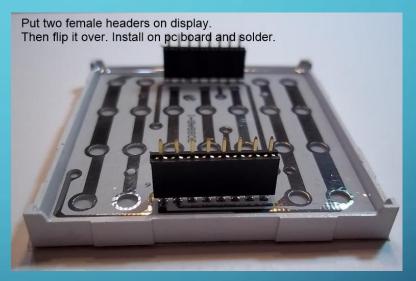


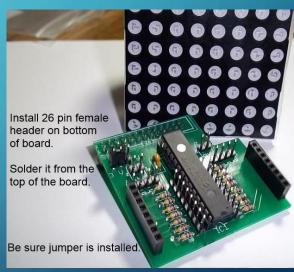


### PI MATRIX BOARD

Install one capacitor and solder it.

Install pins as shown and solder.





HTTP://WWW.MYPISHOP.COM/PI%20MATRIX.HTML

### A LITTLE BIT OF PROGRAMMING



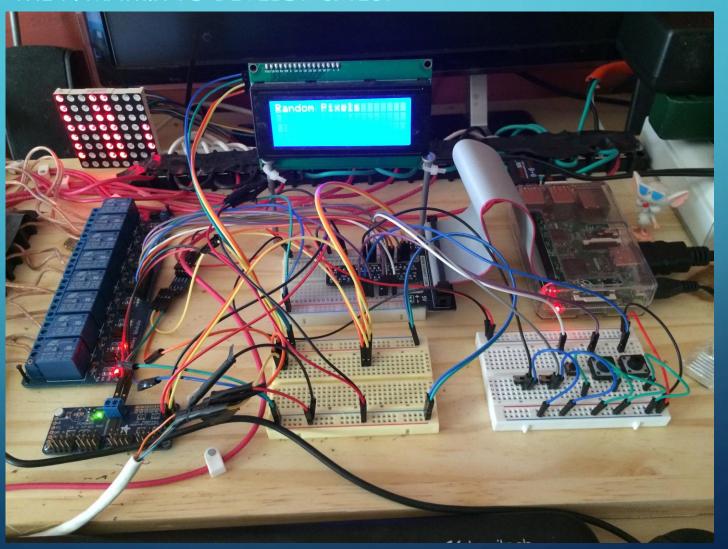
Beginner's Guide to the

### **PI MATRIX**

Part 4 : Text Scrolling

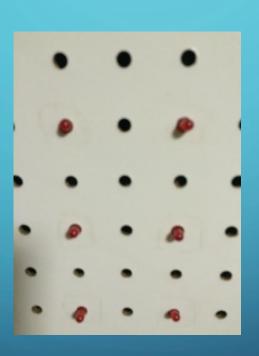
HTTP://W8BH.NET/PI/PIMATRIX4.PDF

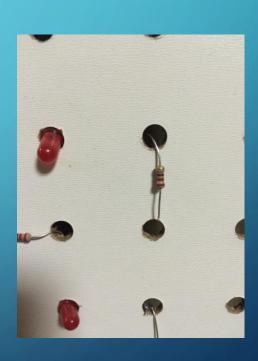
### USING THE PI MATRIX TO DEVELOP & TEST



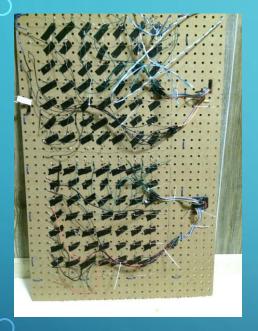
### MAKING A BIGGER VERSION – THE CLEAN SIDE



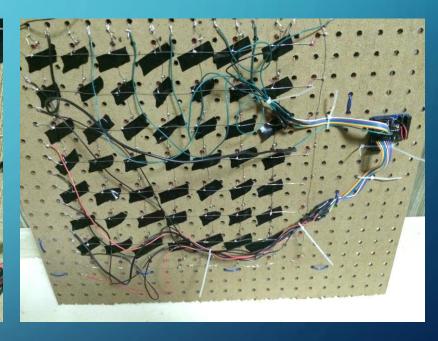




### HAVING FUN WITH A SOLDERING IRON







# IN MY WINDOW AT XMAS

